

NATIONAL BOARD OF ACCREDITATION

Data Capturing Points of the Program Applied for NBA Accreditation– Tier I/II UG (Engineering) Institute Programs

Program Name : Electronics & Communication Engineering	Discipline: Engineering & Technology
Level : Under Graduate	Tier: 2
Application No: 11859	Date of Submission: 22-05-2026

PART A- Profile of the Institute

A1.Name of the Institute: Agni College of Technology	
Year of Establishment : 2001	Location of the Institute: Thalambur
A2. Institute Address: OLD MAHABALIPURAM ROAD IT HIGHWAY, NEAR NAVALUR THALAMBUR-KANCHEEPURAM DISTRICT	
City: CHENNAI	State: Tamil Nadu
Pin Code: 603103	Website: www.act.edu.in
Email: MAIL@ACT.EDU.IN	Phone No (with STD Code): 044-49972904
A3. Name and Address of the Affiliating University (if any):	
Name of the University : NIL	City: Kancheepuram
State : Tamil Nadu	Pin Code: 600130
A4. Type of the Institution: Self-Supported Institute	
A5. Ownership Status: Self financing	

A6. Details of all Programs being Offered by the Institution:

- No. of UG programs: 10
- No. of PG programs: 1

Table No. A6.1: List of all programs offered by the Institute.

Sr.No.	Discipline	Level of program	Name of the program	Year of Start	Year of Closed	Name of The Department
1	Engineering & Technology	UG	Artificial Intelligence and Data Science	2021	—	Artificial Intelligence and Data Science
2	Engineering & Technology	UG	Biomedical Engineering	2014	—	Biomedical Engineering
3	Engineering & Technology	UG	Chemical Engineering	2016	—	Chemical Engineering
4	Engineering & Technology	UG	Civil Engineering	2010	—	Civil Engineering
5	Engineering & Technology	UG	Computer Science and Engineering	2001	—	Computer Science and Engineering
6	Engineering & Technology	UG	Electrical & Electronics Engineering	2001	—	Electrical and Electronics Engineering
7	Engineering & Technology	UG	Electronics & Communication Engineering	2001	—	Electronics and Communication Engineering
8	Engineering & Technology	UG	Information Technology	2001	—	Information Technology
9	Engineering & Technology	UG	Mechanical Engineering	2010	—	Mechanical Engineering

10	Engineering & Technology	UG	Mechatronics Engineering	2014	—	Mechatronics Engineering
11	Engineering & Technology	PG	Structural Engineering	2014	—	Structural Engineering

A7. Programs to be considered for Accreditation vide this Application:

Table No. A7.1: List of programs to be considered for accreditation.

Name of the Department	Having Allied Departments	Name of the Program	Program Level
Civil Engineering	No	Civil Engineering	UG
Electronics and Communication Engineering	No	Electronics & Communication Engineering	UG
Artificial Intelligence and Data Science	No	Artificial Intelligence and Data Science	UG

Table No. A7.2: Allied Department(s) to the Department of the program considered for accreditation as above.
Cluster ID. Name of the Department (in table no. A7.1) Name of allied Departments/Cluster (for table no. A7.1)

No Record

PART-B: Program information

B1. Provide the Required Information for the Program Applied For:

Table No. B1: Program details.

A. List of the Programs Offered by the Department:

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPETENT AUTHORITY ARROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
1	Electronics & Communication Engineering	UG	2001 / —	60	Yes	NA	60	2001	F.No:732-52-414/(E)/2000	Granted accreditation for 3 years for the period (specify period)	2023	2026	3	4

List of the Allied Departments/Cluster and Programs:

B2. Detail of Head of the Department for the program under consideration:

A. Name of the HoD :	Dr. S. Senthilkumar
B. Nature of appointment:	Regular
C. Qualification:	Ph.D

B3. Program Details

Table No.B3.1: Admission details for the program excluding those admitted through multiple entry and exit points.

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2025-26 (CAY)	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)	2021-22 (CAYm4)	2020-21 (CAYm5)	2019-20 (CAYm6)
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N=Sanctioned intake of the program (as per AICTE /Competent authority)	60	60	60	60	60	60	120
N1=Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	60	56	57	59	35	31	38
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	0	3	3	2	1	0
N3=Separate division if any	0	0	0	0	0	0	0
N4=Total no. of students admitted in the 1st year via all supernumerary quotas	3	2	0	0	0	0	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	63	58	60	62	37	32	38

CAY= Current Academic Year. CAYm1= Current Academic Year Minus 1 CAYm2= Current Academic Year Minus 2. LYG= Last Year Graduate. LYGM1= Last Year Graduate Minus 1. LYGM2= Last Year Graduate Minus 2.

B4. Enrolment Ratio in the First Year

Table No. B4.1: Student enrolment ratio in the 1st year.

Year of entry	N (From Table 4.1)	N1 (From Table 4.1)	N4 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2025-26 (CAY)	60	60	3	105.00
2024-25 (CAYm1)	60	56	2	96.67
2023-24 (CAYm2)	60	57	0	95.00

Average [(ER1 + ER2 + ER3) / 3] = 98.89≡ 20.00

B5. Success Rate of the Students in the Stipulated Period of the Program

Table No.B5.1: The success rate in the stipulated period of a program.

Item	(2021-22) LYG	(2020-21) LYGm1	(2019-20) LYGm2
A*= (No. of students admitted in the 1st year of that batch and those actually admitted in the 2nd year via lateral entry, plus the number of students admitted through multiple entry (if any) and separate division if applicable, minus the number of students who exited through multiple entry (if any).	62.00	61.00	120.00
B=No. of students who graduated from the program in the stipulated course duration	37.00	32.00	38.00
Success Rate (SR)= (B/A) * 100	59.68	52.46	31.67

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 47.94

B6. Academic Performance of the First-Year Students of the Program

Table No.B6.1: Academic Performance of the First-Year Students of the Program.

Academic Performance	CAYm1(2024-25)	CAYm2(2023-24)	CAYm3 (2022-23)
X=(Mean of 1st year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 1st year/10)	7.31	7.12	7.03
Y=Total no. of successful students	58.00	57.00	59.00
Z=Total no. of students appeared in the examination	58.00	57.00	59.00
API [X*(Y/Z)]	7.31	7.12	7.03

Average API[(AP1+AP2+AP3)/3]: 7.15

B7: Academic Performance of the Second Year Students of the Program

Table No.B7.1: Academic Performance of the Second Year Students of the Program.

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2nd year/10)	7.33	6.93	6.87
Y=Total no. of successful students	60.00	62.00	37.00
Z=Total no. of students appeared in the examination	60.00	62.00	36.00
API [X * (Y/Z)]	7.33	6.93	7.06

Average API [(AP1 + AP2 + AP3)/3] : 7.11

B8. Academic Performance of the Third Year Students of the Program

Table No.B8.1: Academic Performance of the Third Year Students of the Program

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 3rd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 3rd year/10)	7.36	7.33	7.10
Y=Total no. of successful students	62.00	37.00	32.00
Z=Total no. of students appeared in the examination	62.00	37.00	32.00
API [X*(Y/Z)]:	7.36	7.33	7.10

Average API [(AP1 + AP2 + AP3)/3] : 7.26

B9. Placement, Higher Studies, and Entrepreneurship

Table No.B9.1: Placement, higher studies, and entrepreneurship details.

Item	LYG (2021-22)	LYGm1(2020-21)	LYGm2(2019-20)
FS*=Total no. of final year students	62.00	61.00	120.00
X=No. of students placed	34.00	31.00	34.00
Y=No. of students admitted to higher studies	1.00	0.00	2.00
Z= No. of students taking up entrepreneurship	1.00	1.00	0.00
Placement Index(P) = ((X + Y + Z)/FS) * 100):	58.06	52.46	30.00

Average Placement Index = (P_1 + P_2 + P_3)/3: 46.84 Placement Index Points:

PART C: Faculty Details in Department and Allied Departments
(Data to be filled in for the Department and Allied Departments)

C1. Faculty details of Department and Allied Departments

Table No.C1: Faculty details in the Department for the past 3 years including CAY

Sr.No	Name of the Faculty	PAN No.	Highest degree	University	Area of Specialization	Date of Joining in this Institution	Experience in years in current institute	Designation at Time Joining in this Institution	Present Designation	The date on which Designated as Professor/ Associate Professor if any	Nature of Association (Regular/ Contract/ Ad hoc)	Currently Associated (Y/N)	In case of NO, Date of Leaving	IS HOD?
1	Dr. S. Senthilkumar	XXXXXXX71A	Ph.D	Anna University	Image Processing	10/06/2022	3.11	Professor	Professor	10/06/2022	Regular	Yes		Yes
2	Dr.R.Ratheesh	XXXXXXX96G	Ph.D	Vellore Institute of Technology	Wireless Networks	27/04/2022	4	Assistant Professor	Associate Professor	27/08/2024	Regular	Yes		No
3	Dr. N.V.S. Sree Rathna Lakshmi	XXXXXXX56K	Ph.D	Anna University	Image Processing	02/04/2018	6.1	Professor	Professor	02/04/2018	Regular	No	23/05/2024	No
4	Dr. Sridhathan.C	XXXXXXX17Q	Ph.D	Universiti Malaysia Pahang (UMP)	Electronics Engineering	30/04/2021	3.1	Associate Professor	Associate Professor	30/04/2021	Regular	No	07/06/2024	No
5	Dr. D Maheswari	XXXXXXX88D	Ph.D	Anna University	Advanced Communication Systems	22/11/2010	15.6	Assistant Professor	Assistant Professor		Regular	Yes		No
6	Dr. K. Mohamed Ismail	XXXXXXX04G	Ph.D	Gandhi Institute of Technology and Management (GITAM)	Electronics and Communication Engineering	05/06/2017	8.11	Assistant Professor	Assistant Professor		Regular	Yes		No
7	Mr S.Ohmshankar	XXXXXXX90P	M.Tech	Prist University	Communication Systems	07/06/2007	18.11	Assistant Professor	Assistant Professor		Regular	Yes		No
8	Ms. K.Elaiyarani	XXXXXXX61M	M.E.	Anna University	Applied Electronics	20/07/2023	2.10	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Kavya R K	XXXXXXX87J	M.E.	Anna University	Applied Electronics	29/05/2023	2.11	Assistant Professor	Assistant Professor		Regular	Yes		No
10	Blessina Preethi R	XXXXXXX33C	M.E.	Anna University	Applied Electronics	20/01/2025	1.3	Assistant Professor	Assistant Professor		Regular	Yes		No
11	S. Piriyaadharshini	XXXXXXX23N	M.E.	Anna University	VLSI Design	24/02/2025	1.2	Assistant Professor	Assistant Professor		Regular	Yes		No
12	T.Geetha	XXXXXXX49E	M.E.	Anna University Chennai	Power Electronics and Drives	16/05/2023	3	Assistant Professor	Assistant Professor		Regular	Yes		No
13	Smisha.M.S	XXXXXXX93L	M.E.	Anna University of Technology Tirunelveli	Power Electronics and Drives	08/04/2025	1.1	Assistant Professor	Assistant Professor		Regular	Yes		No
14	M.Suba pradha	XXXXXXX90K	M.E.	Anna University	Applied Electronics	15/03/2024	2.2	Assistant Professor	Assistant Professor		Regular	Yes		No

15	Dr.P. Chitra	XXXXXXX49J	Ph.D	Anna University	Image Processing	07/03/2022	3.2	Assistant Professor	Assistant Professor		Regular	No	21/05/2025	No
16	Manju.P	XXXXXXX11C	M.E.	Anna University	Applied Electronics	14/03/2024	1.2	Assistant Professor	Assistant Professor		Regular	No	29/05/2025	No
17	K. Ambika	XXXXXXX65P	M.E.	Sathyabama University	Applied Electronics	03/04/2023	1.2	Assistant Professor	Assistant Professor		Regular	No	18/06/2024	No
18	Dr.J.Rajeswari	XXXXXXX77M	Ph.D	Vellore Institute of Technology	Signal Processing	17/06/2022	3.11	Assistant Professor	Associate Professor	12/08/2024	Regular	Yes		No
19	R.Anitha	XXXXXXX95M	M.E.	Anna University	Power Electronics and Drives	23/05/2023	3	Assistant Professor	Assistant Professor		Regular	Yes		No

Table No.C2: Faculty details of Allied Departments for the past 3 years including CAY.

C2. Student-Faculty Ratio (SFR)

No. of UG(Engineering) programs in Department including allied departments/ clusters (UGn):

UG1=1st UG program

UGn=nth UG program

B= No. of Students in UG 2nd year (ST)

C= No. of Students in UG 3rd year (ST)

D= No. of Students in UG 4th year (ST)

No. of PG (Engineering) programs in Department including allied departments/ clusters (PGm):

PG1=1st PG program.

PGm=mth PG program

A= No. of Students in PG 1st year

B= No. of Students in PG 2nd year

Student Faculty Ratio (SFR) = S/F

S= No. of students of all programs in the Department including all students of allied departments/clusters.

No. of students (ST)=Sanctioned Intake (SA)+ Actual admitted students via lateral entry including leftover seats (L) if any (limited to 10 % of SA)

Students who admitted under supernumerary quotas (SNQ, EWS, etc) will not be considered in calculating SFR value. Those students are exempted.

F=Total no. of regular or contractual faculty members (Full Time) in the Department, including allied departments/clusters (excluding first year faculty (The faculty members who have a 100% teaching load in the first-year courses)).

No. of UG Programs in the Department1 No. of PG Programs in the Department0

Table No.C2.1: Student-faculty ratio.

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	60	63	64
UG1.C	63	64	62
UG1.D	64	62	61
UG1: Electronics & Communication Engineering	187	189	187
DS=Total no. of students in all UG and PG programs in the Department	187	189	187
AS=Total no. of students of all UG and PG programs in allied departments	0	0	0
S=Total no. of students in the Department (DS) and allied departments (AS)	S1= 187	S2= 189	S3= 187
DF=Total no. of faculty members in the Department	14	13	14
AF= Total no. of faculty members in the allied Departments	0	0	0

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	F1= 14	F2= 13	F3= 14
FF=The faculty members in F who have a 100% teaching load in the first-year courses	2	2	2
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 15.58	SFR2= 17.18	SFR3= 15.58
Average SFR for 3 years	SFR= 16.11		

C3. Faculty Qualification

- Faculty qualification index (FQI) = $2.5 \times [(10X + 4Y)/RF]$ where
- X=No. of faculty members with Ph.D. degree or equivalent as per AICTE/UGC norms.
- Y=No. of faculty members with M. Tech. or ME degree or equivalent as per AICTE/ UGC norms.
- RF=No. of required faculty in the Department including allied Departments to adhere to the 20:1 Student-Faculty ratio, with calculations based on both student numbers and faculty requirements as per section C2 of this documents: (RF=S/20).

Table No.C3.1: Faculty qualification.

Year	X	Y	RF	FQ = $2.5 \times [(10X + 4Y) / RF]$
2025-26(CAY)	3	11	9.00	20.56
2024-25(CAYm1)	4	9	9.00	21.11
2023-24(CAYm2)	5	9	9.00	23.89

C4. Faculty Cadre Proportion

- Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)
- RF1= No. of Professors required = $1/9 \times$ No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per C2 of this documents:.
- RF2= No. of Associate Professors required = $2/9 \times$ No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents:.
- RF3= No. of Assistant Professors required = $6/9 \times$ No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents:.
- Faculty cadre and qualification and experience should be as per AICTE/UGC norms.

Table No.C4.1: Faculty cadre proportion details.

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2025-26	1.00	1.00	2.00	2.00	6.00	11.00
2024-25	1.00	1.00	2.00	2.00	6.00	10.00
2023-24	1.00	2.00	2.00	1.00	6.00	11.00
Average	RF1=1.00	AF1=1.33	RF2=2.00	AF2=1.67	RF2=6.00	AF2=10.67

C5. Visiting/Adjunct Faculty/Professor of Practice

Table No. C5.1: List of visiting/adjunct faculty/professor of practice and their teaching and practical loads.

(CAYm1)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr NATARAJAN T	Professor(Retired)	Indian Institute of Technology, TIRUP	Electronic Circuits	59.00
2	Mr Mayank Chakraverty	Senior Engineer	Analog Design Enablement & Ams OSRAM	Embedded Systems and IOT Design	56.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr NATARAJAN T	Professor (Retired)	Indian Institute of Technology, TIRUP	Electronic Devices and Circuits	56.00
2	Mr Mayank Chakraverty	Senior Engineer	Analog Design Enablement & Ams OSRAM	Linear Integrated Circuits	58.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr Mayank Chakraverty	Senior Engineer	Analog Design Enablement & Ams OSRAM	Communication Networks	53.00
2	Dr NATARAJAN T	Professor (Retired)	Indian Institute of Technology, TIRUP	Transmission Lines and RF Systems	57.00

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)
1	No. of peer reviewed journal papers published	16	11	10
2	No. of peer reviewed conference papers published	12	4	0
3	No. of books/book chapters published	4	2	2

C7. Sponsored Research Project

Table No. C7.1: List of sponsored research projects received from external agencies.

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr.R.Ratheesh		ECE	Autonomous Surveillance Drone	Malles Automation	24 Months	618000.00
Dr.J.Rajeswari		ECE	A Robust protraction system for Indian women: Intelligent Ring	TNSCST	6 Months	7500.00
Dr.J.Rajeswari		ECE	Advanced agricultural BOT-enhancing small scale farming with AI and automation	Niral Thiruvizha- Tamil Nadu government- Nan Muthalvan scheme	11 Months	10000.00
						Amount received (Rs.):635500.00

(CAYm2)

(CAYm3)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr.N.V.S. Rathna Lakshmi		ECE	Development of ZrO2 Multiwalled carbon Nanotube Reinforced aluminum metal matrix composite for electronics industrial application	TNSCST Science and Technology Projects-2022-23	24 months	225000.00
Dr.P.Josh Kumar		ECE	Automated Identification of Fish Species	TNSCST	5 Months	7500.00
						Amount received (Rs.):232500.00

Total Amount (Lacs) Received for the Past 3 Years: 868000.00

Note*:

- Only sponsored research projects will be considered. Infrastructure-based projects will not be considered here.

C8. Consultancy Work

Table No. C8.1: List of consultancy projects received from external agencies.

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr.J.Rajeswari		ECE	Smart blood profile analyzing using image processing	Appasamy Associate (P) Ltd,Chennai	15 months	425000.00
						Amount received (Rs.):425000.00

(CAYm2)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr.NVS.Sri Rathna Lakshmi		ECE	Development of E-Vehicle with mid drive to Enhance heavy traction	Leap Industries(P) Ltd-Bangalore	6 months	250000.00
Dr.S.Senthil Kumar		ECE	Development of Full electric multi-purpose Agriculture tiller machine	Leap Industries(P) Ltd-Bangalore	10 months	368000.00
						Amount received (Rs.):618000.00

(CAYm3)

Total amount (Lacs) received for the past 3 years: 1043000.00

Note*:

- Only consultancy projects will be considered. Infrastructure-based projects will not be considered here.

C9. Institution Seed Money or Internal Research Grant to its Faculty for Research Work

Table No. C9.1: List of faculty members received seed money or internal research grant from the Institution.

(CAYm1)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Mr.K.Mohamed Ismail	Development of metal sulfide nanocomposite for super capacitors	1 Year	2.20	2.20	2 Journal Published
Dr.R.Ratheesh	Development of underwater Autonomous Drone	6 months	1.80	1.80	1 Journal Published
			Amount received (Rs.): 4.00		

(CAYm2)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Dr.R.Ratheesh	Design and implementation of RABPS algorithm in LTE-A network for power optimization	6 months	1.00	1.00	1 Journal Published
Mr.K.Mohamed Ismail	Development of Bismuth doped nanocomposites for energy storage applications	1 Year	2.00	2.00	1 Journal Published
			Amount received (Rs.): 3.00		

(CAYm3)

Total amount (Lacs) received for the past 3 years : 7.00

PART D: Laboratory Infrastructure in the Department
(Data to be filled in for the Department)

D1. Adequate and Well-Equipped Laboratories, and Technical Manpower

Table No.D1.1: List of laboratories and technical manpower.

Sr. No	Name of the Laboratory	Number of students per set up(Batch Size)	Name of the Important Equipment	Weekly utilization status(all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	Electronic Devices and Circuits (EDC) Lab	4	CRO/DSO (30MHz), Dual Regulated Power supplies, Function Generators(3MHz), Single Regulated Power supplies	20 hrs	Mrs.A.Ananthi	Lab Instructor	D.E.E.E
2	Digital Electronics Lab	4	Digital IC Tester, Digital Trainer Kit, Fixed Power Supply +/- 5V, 12V, Dual Regulated Power supplies	24 hrs	Mr.M.Jaya Suriya	Lab Instructor	B.E.
3	Communication Systems Lab	4	Trainer Kits for AM, FM, Signal Sampling, TDM, PCM, PAM, PPM, PWM, DM and Line Coding Schemes, Trainer Kits for ASK, FSK and PSK, CRO/DSO, 30MHz	12 hrs	Mr.M.Jaya Suriya	Lab Instructor	B.E.
4	Microprocessor and Microcontroller Lab	2	ARM Controller Board, LPC 2148 ARM Embedded Trainer Kit, 8051 Trainer Kits, 8085 Trainer Kits,8086 Trainer Kits, 8088 Trainer Kits, 8086 Trainer Kits	16 hrs	Mr.Tamil Selvan	Lab Instructor	D.E.C.E
5	VLSI/DSP Lab	2	Xilinx Spartan III 3E, CRO/DSO, DSP kit TMS 320C6713, TMS 320C50, TMS 320C3X, Intel-based desktop PC with 4GB RAM and 500 GB HDD, 47"	16 hrs	Mrs.A.Ananthi	Lab Instructor	D.E.C.E

D2. Safety Measures in Laboratories

Table No. D2.1: List of various safety measures in laboratories.

Sr. No	Laboratory Name	Safety Measures
1	Electronic Devices and Circuits (EDC) Laboratory	1. Wear closed-toe footwear and maintain proper laboratory discipline. 2. Read the experiment procedure thoroughly before starting the experiment. 3. Ensure the regulated DC power supply is OFF before making or modifying circuit connections. 4. Verify the circuit connections with the faculty/lab instructor before switching ON the power supply. 5. Never exceed the voltage and current ratings of electronic components. 6. Use properly insulated test leads, probes, and measuring instruments. 7. Avoid touching live terminals and energized circuits with bare hands. 8. Immediately switch OFF the supply if any component overheats, emits smoke, or produces unusual noise. 9. Keep the workbench clean and free from liquids, food, and metallic objects. 10. Switch OFF all instruments and return components to their designated places after completing the experiment.
2	Digital Electronics Laboratory	1. Switch OFF the power supply before inserting or removing ICs from the breadboard. 2. Check the correct orientation and pin configuration of all ICs before energizing the circuit. 3. Use only the specified +5 V regulated supply for TTL/CMOS logic circuits unless otherwise instructed. 4. Observe ESD (Electrostatic Discharge) precautions while handling CMOS ICs. 5. Do not short the power supply terminals or breadboard power rails. 6. Verify all circuit connections with the instructor before applying power. 7. Use logic probes, oscilloscopes, and function generators only within their specified operating limits. 8. Replace damaged ICs, jumper wires, or breadboards immediately after reporting to the instructor. 9. Disconnect power before modifying or troubleshooting the circuit. 10. Turn OFF all instruments and power supplies after the experiment.
3	Communication Systems Laboratory	1. Read the experiment manual before operating communication trainer kits. 2. Ensure all signal generator and CRO/DSO connections are correct before switching ON the equipment. 3. Use only the recommended signal amplitude and frequency specified in the experiment. 4. Never connect or disconnect RF/coaxial cables while equipment is powered ON. 5. Handle antennas, RF connectors, and coaxial cables carefully to avoid damage. 6. Ensure proper grounding of measuring instruments to prevent electrical hazards. 7. Do not stare directly into optical transmitters or laser sources used in fiber optic experiments. 8. Keep mobile phones and unauthorized RF devices away from sensitive communication experiments. 9. Report damaged cables, connectors, or malfunctioning equipment immediately. 10. Switch OFF all equipment after completing the experiment.
4	Microprocessor and Microcontroller Laboratory	1. Switch OFF the trainer kit before making hardware connections or interfacing peripherals. 2. Verify the power supply polarity before energizing the trainer board. 3. Handle microprocessor and microcontroller ICs using ESD-safe practices. 4. Check all interfacing connections before downloading or executing programs. 5. Do not insert or remove ICs while the trainer kit is powered ON. 6. Use only authorized programmers, USB cables, and interface modules. 7. Avoid short circuits while connecting peripherals such as LEDs, LCDs, keyboards, and motors. 8. Report overheating, abnormal operation, or damaged hardware immediately. 9. Save program files before disconnecting the hardware. 10. Properly shut down the computer and switch OFF the trainer kit after completing the experiment.
5	VLSI / DSP Laboratory	1. Follow Electrostatic Discharge (ESD) precautions while handling FPGA, DSP, and VLSI development boards. 2. Wear an antistatic wrist strap when handling sensitive semiconductor devices. 3. Switch OFF the development board before connecting or disconnecting peripherals. 4. Verify the supply voltage and cable connections before powering the hardware. 5. Use only approved JTAG programmers, USB cables, and interface modules. 6. Avoid placing metallic or conductive objects on FPGA/DSP boards. 7. Ensure adequate ventilation around computers and development boards to prevent overheating. 8. Save design files before programming or disconnecting the hardware. 9. Report damaged connectors, cables, or malfunctioning boards immediately to the instructor. 10. Shut down the software, switch OFF the hardware, and disconnect the power supply after completing the experiment.

D3. Project Laboratory/Research Laboratory

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PART E: First Year faculty and financial Resources**(Data to be filled in for the first year course faculty and budget allocation and utilization)****E1. First Year Student-Faculty Ratio (FYSFR)**

Table No. E1.1: FYSFR details.

Year	Sanctioned intake of all UG programs (S4)	No. of required faculty (RF4= S4/20)	No. of faculty members in Basic Science Courses & Humanities and Social Sciences including Management courses (NS1)	No. of faculty members in Engineering Science Courses (NS2)	Percentage= No. of faculty members ((NS1*0.8) + (NS2*0.2))/(No. of required faculty (RF4)); Percentage= ((NS1*0.8) + (NS2*0.2))/RF
2023-24(CAYm2)	660	33	28	12	75
2024-25(CAYm1)	660	33	26	14	72
2025-26(CAY)	660	33	25	15	70

E2. Budget Allocation, Utilization, and Public Accounting at Institute Level

Table No. E2.1: Budget and actual expenditure incurred at Institute level.

Items	Budgeted in 2025-26	Actual Expenses in 2025-26 till	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till
Infrastructure Built-Up	50155700.23	49585300.23	56855345	46648564	55373000	51232000	51001123	49194054
Library	16853136	15753250	16825120	14332876	14414000	13029050	11723400	10637012
Laboratory equipment	13814327	12712354	12544580	11572453	12268000	10858184	9928560	9455122
Teaching and non-teaching staff salary	79348715	76258827	87053710	74505971	71010000	66710932	78008004	63760800
Outreach Programs	4945654	4832157	4744329	4623050	4482000	4356665	4323450	4115540
R&D	21002456	20072185	20475972	15527500	13840000	13029237	13001008	11819050
Training, Placement and Industry linkage	11750342	11000580	11045573	9264342	25045000	20561240	20277400	18775453
SDGs	2618553	2446500	2578124	2313124	2315789	2286000	2356350	2156000
Entrepreneurship	1725000	1523547	1617555	1434500	1364000	1205100	1353500	1183005
Others, specify	45853817.2	44853826.08	44911438	35660874	32354000	31988441	56283342	55291111
Total	248067700.43	239038526.31	258651746	215883254	232465789	215256849	248256137	226387147

E3. Budget Allocation, Utilization, and Public Accounting at Program Specific Level

Table No. E3.1: Budget and actual expenditure incurred at program level.

Items	Budgeted in 2025-26	Actual Expenses in 2025-26 till	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till
Laboratory equipment	2746125	2532150	2518440	2317148	2497000	2209552	2156000	2085335

Software 	1365050	1321050	974567	886000	848000	667168	692000	544657
SDGs 	495575	485150	406010	375000	345000	303050	313000	286965
Support for faculty development 	1164600	1023215	775075	686075	586000	406175	502000	396150
R & D 	2948150	2655750	1989545	1923350	1769000	1617984	1454000	1438500
Industrial Training, Industry expert, Internship 	4218564	3915000	2576800	2437347	2216000	2007436	2108000	1958200
Miscellaneous Expenses* 	10187250	9708000	9452678	7365000	7365000	6637907	4848000	4261342
Total	23125314	21640315	18693115	15989920	15626000	13849272	12073000	10971149